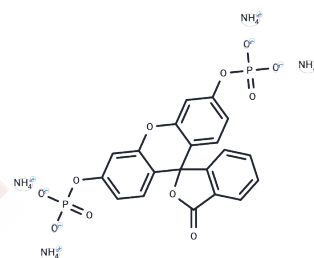


## Fluorescein diphosphate tetraammonium

### Chemical Properties

CAS No. :	217305-49-2
Formula:	C <sub>20</sub> H <sub>26</sub> N <sub>4</sub> O <sub>11</sub> P <sub>2</sub>
Molecular Weight:	560.39
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	Fluorescein diphosphate tetraammonium is a fluorescent dye and a fluorescent phosphatase substrate that is hydrolyzed into highly fluorescent fluorescein after interaction with phosphatases.
Targets(IC50)	Others
In vitro	50 μM Fluorescein diphosphate tetraammonium at room temperature can be used in vitro phosphatase assays as the substrate. [1] The reaction of Fluorescein diphosphate tetra-ammonium sal with ALP liberates the green fluorescent dye, fluorescein. [2]

### Solubility Information

Solubility	DMSO: 1 mg/mL (1.78 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7845 mL	8.9224 mL	17.8447 mL
5 mM	0.3569 mL	1.7845 mL	3.5689 mL
10 mM	0.1784 mL	0.8922 mL	1.7845 mL
50 mM	0.0357 mL	0.1784 mL	0.3569 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Gilmartin AG, et al. Allosteric Wip1 phosphatase inhibition through flap-subdomain interaction. Nat Chem Biol. 2014 Mar;10(3):181-7.

Tsutsumi E, et al. Single-step sandwich immunoreaction in a square glass capillary immobilizing capture and enzyme-linked antibodies for simplified enzyme-linked immunosorbent assay. Anal Sci. 2012;28(1):51-6.

Murakami Y, et al. On-chip capillary electrophoresis for alkaline phosphatase testing. Biosens Bioelectron. 2001 Dec;16(9-12):1009-14.

Zhou X, Zhou X, Zheng B. Stacking chip for quantitative bioanalysis. Talanta. 2017 Dec 1;175:483-487. doi: 10.1016/j.talanta.2017.07.077. Epub 2017 Jul 25. PubMed PMID: 28842021.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481